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☐ 1. Document ID: US 20050107254 A1

AB: A recording paper including a substrate which includes cellulose pulp and has a surface treated with a surface sizing solution, wherein the surface sizing solution contains a surface sizing agent and a nonionic surfactant having an HLB in a range of 6 to 13, a content of the nonionic surfactant is in a range of 1 to 100 parts by weight per 100 parts by weight of the surface sizing agent, and the surface sizing agent has a contact angle with water in a range of 40 to 75.degree..

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

☐ 2. Document ID: US 20050104947 A1

AB: A recording sheet comprising a cellulose pulp, wherein a water retention value C of the sheet according to the following formula (1) is 50 to 100% and a wet tensile strength residual ratio R of the sheet in CD according to the following formula (2) is 5 to 20%:

Water retention value C(%)={(A-B)/B}.times.100 Formula (1)

Wet tensile strength residual ratio R (%) in CD=(Sw/S).times.100. Formula (2)

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

☐ 3. Document ID: US 20040265513 A1

AB: A support for an image recording material comprises base paper having a formation index at a restriction diameter of 1.0 mm equal to or greater than 80 and density equal to or greater than 0.95 g/m.sup.3, changes of said formation index and density of said base paper before and after contact of a front surface of said base paper at a side on which an image recording layer of said imager recording material is formed with water at 20.degree. C. for 30 seconds being equal to or less than 10 and 0.05 g/m.sup.3, respectively.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

☐ 4. Document ID: US 6716495 B1

AB: An ink-jet recording apparatus is adapted to eject ink from an ink-jet head onto a recording medium held in position by means of an electrostatic adsorption system. The surface resistance of the recording medium is not greater than 1.times.10.sup.11 .OMEGA./.quadrature..

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

☐ 5. Document ID: JP 2004226951 A

AB: PROBLEM TO BE SOLVED: To provide a support base for an image recording material, which has very excellent smoothness and enables formation of an image of high image quality comparable to a silver salt photograph, and to provide a method for manufacturing the same and an image recording material.

SOLUTION: In the support base for an image recording material including at least base paper, a formation index (diaphragm: 1.0 mm) in the base paper is ≥80. Preferred aspects include an aspect in which a variation in formation index (diaphragm: 1.0 mm) before and after contact of water at 20°C for 30 s with the surface of the support on a side on which an image forming layer is disposed ((formation index before contact)-(formation index after contact)) is ≤10, an aspect in which a density of the base paper is ≥0.95 g/cm3, and an aspect in which a variation in density before and after contact of water at 20°C for 30 s with the surface of the support on the side on which the image forming layer is disposed ((density before contact)-(density after contact)) is ≤0.05 g/cm3.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

☐ 6. Document ID: US 20040265513 A1, JP 2004226951 A

AB: NOVELTY - The aperture formation index of the paper base material of the support roller, is 80 or more in 1.0mm. The density of the base material is more than 0.95g/cm3. The variation index of the aperture and the density variation of the base material are 10 or less and below 0.05g/cm3 respectively, before and after contacting the paper base material with water for 30 seconds, at 20 deg. C.

DETAILED DESCRIPTION - The paper base material comprising pulp paper stock having weighted mean fiber length ranging between 0.45-0.65mm, is processed with wire roll having 40-100 meshes after shake-processing the pulp at an amplitude of 10mm or more, when the surface temperature of the

wire roll is at 140 deg. C. The support roller is coated with water-based polymer containing coating liquid and covered with polyolefin resin.

INDEPENDENT CLAIMS are also included for the following:

(1) image recording belt support roller manufacturing method involves processing pulp paper stock with wire roll having specific range of meshes after shake-processing the pulp at specific amplitude, using a foudrinier paper machine; and

(2) image recording belt material comprising electrophotographic material, thermo sensitive material, inkjet recording material, film photomaterial, and thermal transfer material.

USE - For image fixing apparatus of inkjet printer.

ADVANTAGE - The support roller has excellent smoothness, thereby producing high resolution image having high gloss, effectively.

DESCRIPTION OF DRAWING(S) - The figure shows a profile diagram of the belt fixing apparatus in the printer.

belt fixing apparatus 1

belt 2

heating roller 3

pressure roller 4

tension roller 5

cleaning roller 6

cooling device 7